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25X1

MEMORANDUM FOR: [redacted]
Tempest Division
Technical Security Group
Physical Technical & Area Security
Office of Security

25X1

FROM: [redacted]
Chief, Technical Group/DAS/IMSS/OL

SUBJECT: Request for Approval on Hardware and Software Configuration for Barcode Development
25X1 Facility [redacted]

1. This memorandum addresses the Barcode Development Facility in regard to System Configuration, hardware, software
25X1 and classification of data. [redacted]

2. The Barcode Development Facility is intended to
25X1 replicate the Barcode System located at [redacted] The development facility will be used to enhance and test software for the Barcode System. In addition, this facility will be used to provide backup capability in the event of system outage at
25X1 [redacted] The Barcode Development Facility will be in
25X1 a vault located in room [redacted]

3. The Barcode System, which operates on non-tempested hardware, provides the Office of Logistics with automated tracking of materials through various staging points in the
25X1 [redacted] uses hand-held microcomputers to scan and store data that is specifically related to the material being tracked. All data being scanned and stored is
25X1 unclassified. Several times during the day, [redacted] personnel transmit the unclassified data to a stand alone IBM 3270 PC. The transmissions are via a physical link between the micro-computer and the stand alone PC or via a phone line connected to the stand alone PC through a modem link. The physical link is done by a direct connect to the PC and the transmission via the phone lines is done by an acoustic coupler which is capable of two-way communications. The stand alone PC runs the Terminal Management System (TMS) communication

25X1 [redacted] [redacted]

software. This software receives the transmissions, writes the data to a primary backup diskette, verifies that the data can be read and sends a completed status to the micro-computer when the transmission is complete. The Office of Logistics personnel at
25X1 [redacted] then take the data on diskette from the stand alone PC and hand carry it over to a separate IBM 3270 PC that is linked to VM. The PC linked to VM is in the same room
25X1 as the stand alone PC [redacted] The barcode data then is uploaded to VM as a CMS file using "KERMIT" software. Once the data is in VM, a batch file is run to load the data
25X1 into a temporary $Disk data set. The [redacted] personnel then sign onto GIMS from a Delta Data terminal and loads the data into GIMS. The data is then processed against the
25X1 Inventory Control System (CS). [redacted]

4. The Barcode Development Facility is intended to
25X1 replicate the Barcode System [redacted] The Development Facility will function as does the Barcode System except that it will be running against a development data base. All data will be unclassified. The Development Facility will consist of one IBM 3270 PC, one IBM XT370 PC, one Xerox 2700, one MDI Model 88 scanner (microcomputer), one EPROM burner, one modem and one PC printer. In addition to the software for the Barcode System, the Development Facility will also include the MSI BASIC software. The MSI BASIC software will be used to develop and download software for the MSI Model 88 scanner. The downloading of software to the MSI Model 88 scanner (microcomputer) can take place either by direct connect or by burning EPROMs. When EPROMs are burnt, the chips are inserted into a Program Load Module (PLM). The PLM is then used to load a program into a scanner without the assistance of a PC. The
25X1 PLM is used [redacted] to download new programs or
25X1 reload the existing program. [redacted]

5. The Barcode Development Facility will be configured so that the IBM XT370 will be linked to VM and the IBM 3270 PC will act as the stand alone PC. The Terminal Management System (TMS) software and the MSI BASIC software will be run on the stand alone IBM 3270 PC. The EPROM burner will be tied into the stand alone IBM 3270 along with the Modem. The PC printer will be usable among both the PC's. As with the Barcode System, unclassified data will be sent to the stand alone PC. The data on diskette will be hand carried to the PC linked to VM and uploaded into VM as a CMS file. The data will then be loaded into a $Disk data set and processed into the development data
25X1 base. This process is the same as with the Barcode System. [redacted]

6. The Barcode Development Facility like the Barcode System
25X1 [redacted] handles only unclassified data. The IBM
25X1 3270 PC's and the XEROX 2700 printers [redacted] are
not Tempest. If you have any questions on the configuration or
the use of the Barcode Development facility, please call either
25X1 myself or [redacted] We solicit
your approval of the proposed Barcode Development Facility and
25X1 the use of equipment that is not Tempest. [redacted]

25X1 [redacted]

Distribution:
1-addressee
25X1 1-OL/IMSS/TG [redacted]
1-OL/Reader
1-OL/IMSS Chrono
25X1 OL/IMSS/TG [redacted] (10 April 1986)

CONFIDENTIAL

02 May 1986

MEMORANDUM FOR: Chief, Technical Group, DAS/IMSS/OL

25X1 FROM: [redacted]
Chief, TEMPEST Division, TSG/OS

SUBJECT: Request for Approval on Hardware and Software Configuration for Barcode Development Facility

REFERENCE: Your Memorandum OL 4049, dtd 10 April 1986, Same Subject

1. Approval is granted for reference proposal to replicate
25X1 the Barcode system located [redacted] with the proviso
that the modem is separated a minimum of six feet from electronic
25X1 equipment processing classified information. [redacted]

2. The Information Systems Security Division (ISSD) has concurred with reference proposal providing the diskettes used to transport data from the unclassified system to the classified system are "write protected" to prevent downloading of data from
25X1 the classified system. [redacted]

25X1 3. If further information is required, please contact
[redacted] or [redacted] of my staff on secure
25X1 [redacted] regarding TEMPEST issues and [redacted] of ISSD on
25X1 [redacted] regarding computer security issues. [redacted]

25X1 [redacted]

25X1 [redacted] [redacted]

OS-6-6123

CONFIDENTIAL

PC SECURITY PLAN

for

BARCODE DEVELOPMENT FACILITY

Prepared by
TECHNICAL GROUP
INFORMATION MANAGEMENT SUPPORT STAFF
OFFICE OF LOGISTICS

STAT

1. COMPONENT NAME

Data Control Branch
Supply Division
Office of Logistics
(OL/SD/DCB)

2. PC SYSTEM ADMINISTRATOR

STAT [redacted]
Chief, Data Control Branch
Alternate:
STAT [redacted]
Data Control Branch
STAT [redacted]

3. HARDWARE DESCRIPTION

Quantity	Item	Model	Serial Number
1	IBM Personal Computer	3270	000114326
	PC includes: - Extra 360K Floppy Disk Drive		N/A
	- Two Asynchronous Communication Cards		N/A
	- All Points Addressable Adaptor		N/A
	- AST Sixpakplus		N/A
	- Color Monitor		0088B1669
1	IBM Personal Computer	XT/370	52906425160
	PC includes: - 10MB Hard Disk		N/A
	- 64KB RAM Chip Set		N/A
	- Monochrome Monitor		0279228
	- QUAD / and 512KB RAM Board W/Serial Port Clock		N/A

3. HARDWARE DESCRIPTION (Continued)

Quantity	Item	Model	Serial Number
1	EPSON Printer	FX-80	500654
1	XEROX Printer	2700	E24-043901
1	XEROX Bar Code Font (cartridge)	C3901-P&L	N/A
1	MSI Terminal (hand held terminal)	88	975796
1	MSI Bar Code Wand	88	Not available
1	MSI Modem (for two-way communication)	E10-5E	003530E
1	AZURDATA Modem	191605-200	2761936
1	ADVENT EPROM Programmer	UP8	1372

4. PURCHASE METHOD

The purchase method for the Barcode Development Facility had a sterility code of SCO.

5. CLASSIFICATION

All data to be processed by the Barcode Development Facility is unclassified, however the IBM XT370 PC will interface with VM.

6. USERS AND CLEARANCES

All users of the Barcode Development Facility will be Agency staff employees with a Top Secret security clearance.

7. SYSTEM LOCATION

Data Control Branch
Room 3G23

STAT [redacted]

STAT Note: Room 3G23 [redacted] is a security controlled vault.

8. SYSTEM CONFIGURATION

STAT The Barcode Development Facility configuration is centered around the IBM 3270 PC. A dedicated green phone line [redacted] will be connected to the IBM 3270 PC via the AZURDATA modem. In addition to the modem, the 3270 PC will be linked to the ADVENT EPROM programmer and the EPSON FX-80 printer. The EPSON FX-80 printer will also be linked to the IBM XT/370. The IBM 3270 PC will be a stand alone system used to receive and process
STAT the Barcode data sent across the green phone line [redacted] and to develop or maintain MSI Model 88 terminal programs using MSI software.

The MSI Model 88 terminal will be used to scan test data and send it to the IBM 3270 PC. In addition, the MSI 88 terminal will be used test new programs by downloading it with an updated program from the IBM 3270 PC. The downloading of the program can be done in two different ways. In both cases, the downloading of a program is supported by the MSI Basic Software for the MSI Model 88 Scanner. The first of the two ways is by a direct connect to the IBM 3270 PC. The second of the two ways is done indirectly by first burning the program onto chips using the ADVENT EPROM programmer. After the chips are programmed, they are inserted into a Program Load Module (PLM). The PLM is a piece of hardware that interfaces with the MSI Model 88 terminal exclusively to download a program. Once the PLM has the proper chips installed, it is used to download a program into the MSI Model 88 terminal.

STAT The IBM XT/370 will be used mainly to move data from a 360K diskette to VM by using [redacted] Once the Barcode data is moved into VM, various execs on VM will be run to format and edit the data before batching a job to load the data to a $disk data set. After the data is on the $disk, a procedure is executed on the development data base to bring the data into Gims, after which the data is used to update the data base. The procedure that brings the data into the data base is executed from an existing Delta Data terminal.

9. TYPE OF STORAGE MEDIA

The media for the Barcode Development Facility software storage are a 10MB PC hard disk, 360K PC diskettes and a VM minidisk.

10. OTHER INFORMATION

In regard to PC maintenance, we are planning to have the PC's maintained by IBM once a maintenance contract is awarded by the Office of Information Technology (OIT).

In regard to form 4261, the data to be used with the system is not intended to be transferred to another system however, new or modified system software on the development system will be transferred to the production system. The medium for this transportation would be a diskette. The potential exists that in the event of a major malfunction with the production system, that this development facility could be used as a backup for the production system. It should be noted that the data involved would be unclassified as is the case today with the production system. The medium for this transportation would be diskette.

In regard to PC approval, a memo has been sent to the Chief of the Tempest Division in the Office of Security. Attached to the PC Plan will be a copy of the memo which is classified confidential.